BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer -yelahanka Division

Detailed Estimate

Name of the Work **Asphalting to Roads and improvements to drains in Chikkadinne 1st, 2nd and 3rd Main roads of Attur ward no.03**

Estimate Amount : 4000000.00

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	CIVIL WORKS								
1	Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3).								
	(Page No 25., I.No.5.33 of KPWD S.R 2016-17)								
		Sqm							
	Basic rate	***76.00***							
	Area Wieght age @ 6%	***4.56***							
	Total Rate in Rs	***80.56***							
	4th Cross road from dead end to Veerasagar Main road								
	Ch: (104 - 193)		2	89	0.90		160.20		
	3rd Cross road from Veerasagar Main road to dead end								
	LHS								
	Ch: (0 - 117)		1	117	0.75		87.75		
	Ch: (122 - 183)		1	61	0.75		45.75		
	RHS								
	Ch: (0 - 117)		1	117	0.90		105.30		
	Ch: (122 - 183)		1	61	0.75		45.75		
	2nd Cross road from dead end to Veerasagar Main road								
	LHS								
	Ch: (0 - 70)		1	70	0.90		63.00		
	RHS								
	Ch: (0 - 118)		1	118	0.90		106.20		
	1st Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 100)		2	100	0.90		180.00		
	Ch: (106 - 175)		2	69	0.90		124.20		
							918.15		
	Deduction for damaged and open 25%						**-229.54**		
							688.61	**80.56**	**55474.62**
2	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3								
	(Page No142., I.No.19.1 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	***82.00***							
	Area Wieght age @ 6%	***4.92***							
	Total Rate in Rs	***86.92***							
	Desilting								
	4th Cross road from dead end to Veerasagar Main road								
	Ch: (104 - 193)		2	89	0.60	0.600	64.08		
	3rd Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 117)		2	117	0.60	0.600	84.24		
	Ch: (122 - 183)		2	61	0.60	0.600	43.92		
	2nd Cross road from dead end to Veerasagar Main road								
	Ch: (0 - 65)		2	65	0.60	0.600	46.80		
	Ch: (70 - 182)		2	112	0.60	0.600	80.64		

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	1st Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 100)		2	100	0.60	0.600	72.00		
	Ch: (106 - 175)		2	69	0.60	0.600	49.68		
							441.36	**86.92**	**38363.01**
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 10cm thick								
	Data rate								
		Sqm							
	Total Rate in Rs	***779.00***							
	Area Wieght age @ 6%	***46.74***							
	Total Rate in Rs	***825.74***							
	for damaged drain						229.54		
							229.54	**825.74**	**189538.30**
	Sub total-1								**283375.93**
	ROAD WORKS								
4	KSRRB M300-14. Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301								
	(Page No 143., I.No.19.14 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	***46.00***							
	Area Wieght age @ 6%	***2.76***							
	Total Rate in Rs	***48.76***							
	new contruction								
	4th Cross road from dead end to Veerasagar Main road								
	Ch: (104 - 193)		1	89	3.70	0.450	148.19		
	3rd Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 117)		1	117	4.00	0.450	210.60		
	Ch: (122 - 183)		1	61	4.50	0.450	123.53		
	2nd Cross road from dead end to Veerasagar Main road								
	Ch: (0 - 65)		1	65	3.60	0.450	105.30		
	Ch: (70 - 182)		1	112	4.60	0.450	231.84		
	1st Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 100)		1	100	4.00	0.450	180.00		
	Ch: (106 - 175)		1	69	3.50	0.450	108.68		
							1108.13	**48.76**	**54032.18**
5	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material								
	(Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	***1571.00***							
	Area Wieght age @ 6%	***94.26***							
	Total Rate in Rs	***1665.26***							
	new contruction								
	4th Cross road from dead end to Veerasagar Main road								
	Ch: (104 - 193)		1	89	3.70	0.150	49.40		
	3rd Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 117)		1	117	4.00	0.150	70.20		
	Ch: (122 - 183)		1	61	4.50	0.150	41.18		
	2nd Cross road from dead end to Veerasagar Main road								
	Ch: (0 - 65)		1	65	3.60	0.150	35.10		

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	Ch: (70 - 182)		1	112	4.60	0.150	77.28		
	1st Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 100)		1	100	4.00	0.150	60.00		
	Ch: (106 - 175)		1	69	3.50	0.150	36.23		
							369.38	**1665.26**	**615105.41**
6	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite/trap/basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **(Page No 158., I.No.20.18 of KPWD S.R 2016-17).**								
		Cum.							
	Basic rate	***1668.00***							
	Area Wieght age @ 6%	***100.08***							
	Total Rate in Rs	***1768.08***							
	new contruction								
	4th Cross road from dead end to Veerasagar Main road								
	Ch: (104 - 193)		1	89	3.70	0.225	74.09		
	3rd Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 117)		1	117	4.00	0.225	105.30		
	Ch: (122 - 183)		1	61	4.50	0.225	61.76		
	2nd Cross road from dead end to Veerasagar Main road								
	Ch: (0 - 65)		1	65	3.60	0.225	52.65		
	Ch: (70 - 182)		1	112	4.60	0.225	115.92		
	1st Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 100)		1	100	4.00	0.225	90.00		
	Ch: (106 - 175)		1	69	3.50	0.225	54.34		
							554.06	**1768.08**	**979626.83**
7	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 **(Page No 161., I.No.21.6 of KPWD S.R 2016-17).**								
		Sqm							
	Basic rate	***26.00***							
	Area Wieght age @ 6%	***1.56***							
	Total Rate in Rs	***27.56***							
	new contruction								
	4th Cross road from dead end to Veerasagar Main road								
	Ch: (104 - 193)		1	89	3.70		329.30		
	3rd Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 117)		1	117	4.00		468.00		
	Ch: (122 - 183)		1	61	4.50		274.50		
	2nd Cross road from dead end to Veerasagar Main road								
	Ch: (0 - 65)		1	65	3.60		234.00		
	Ch: (70 - 182)		1	112	4.60		515.20		
	1st Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 100)		1	100	4.00		400.00		
	Ch: (106 - 175)		1	69	3.50		241.50		
							2462.50	**27.56**	**67866.50**

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
8	KSRRB 500-7. Providing and applying tack coat using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5								
	(Page No 161., I.No.21.7 of KPWD S.R 2016-17).								
	Basic rate	***11.00***							
	Area Wieght age @ 6%	***0.66***							
	Total Rate in Rs	***11.66***							
	new contruction								
	4th Cross road from dead end to Veerasagar Main road								
	Ch: (104 - 193)		1	89	3.70		329.30		
	3rd Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 117)		1	117	4.00		468.00		
	Ch: (122 - 183)		1	61	4.50		274.50		
	2nd Cross road from dead end to Veerasagar Main road								
	Ch: (0 - 65)		1	65	3.60		234.00		
	Ch: (70 - 182)		1	112	4.60		515.20		
	1st Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 100)		1	100	4.00		400.00		
	Ch: (106 - 175)		1	69	3.50		241.50		
							2462.50	**11.66**	**28712.75**
9	KSRRB M500- 17. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and filler, transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500-10 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507								
	(Page No 163., I.No.21.17.6 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	***6071.00***							
	Area Wieght age @ 6%	***364.26***							
	Total Rate in Rs	***6435.26***							
	new contruction								
	4th Cross road from dead end to Veerasagar Main road								
	Ch: (104 - 193)		1	89	3.70	0.050	16.47		
	3rd Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 117)		1	117	4.00	0.050	23.40		
	Ch: (122 - 183)		1	61	4.50	0.050	13.73		
	2nd Cross road from dead end to Veerasagar Main road								
	Ch: (0 - 65)		1	65	3.60	0.050	11.70		
	Ch: (70 - 182)		1	112	4.60	0.050	25.76		
	1st Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 100)		1	100	4.00	0.050	20.00		
	Ch: (106 - 175)		1	69	3.50	0.050	12.08		
							123.13	**6435.26**	**792341.39**

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
10	KSRRB M500- 19. Providing, laying bituminousConcrete using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous binder and filler , transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500.9 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509 **(Page No 165., I.No.21.22.6 of KPWD S.R 2016-17).**								
		Cum.							
	Basic rate	***6859.00***							
	Area Wieght age @ 6%	***411.54***							
	Total Rate in Rs	***7270.54***							
	new contruction								
	4th Cross road from dead end to Veerasagar Main road								
	Ch: (104 - 193)		1	89	3.70	0.030	9.88		
	3rd Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 117)		1	117	4.00	0.030	14.04		
	Ch: (122 - 183)		1	61	4.50	0.030	8.24		
	2nd Cross road from dead end to Veerasagar Main road								
	Ch: (0 - 65)		1	65	3.60	0.030	7.02		
	Ch: (70 - 182)		1	112	4.60	0.030	15.46		
	1st Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 100)		1	100	4.00	0.030	12.00		
	Ch: (106 - 175)		1	69	3.50	0.030	7.25		
							73.88	**7270.54**	**537111.14**
11	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 7kms. **.(Refer Table. Page No.140)**								
		Cum.							
	Basic rate	***90.40***							
	Total Rate in Rs	***90.40***							
				For item no	2		441.36		
				For item no	4		1108.13		
							1549.49	**90.40**	**140073.44**
				Sub total-1					**3214869.64**

Rupees Forty Lakhs

Under P-3089

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	ROAD FURNITURES								
12	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be even, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No 185, I.No.24.15 of KPWD S.R 2016-17).								
		Sqm							
	Basic rate	512.00							
	Area Wieght age @ 6%	30.72							
	Total Rate in Rs	542.72							
	Road Marking								
	new contruction								
	4th Cross road from dead end to Veerasagar Main road								
	Ch: (104 - 193)		2	89	0.10		22.25		
	3rd Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 117)		2	117	0.10		29.25		
	Ch: (122 - 183)		2	61	0.10		15.25		
	2nd Cross road from dead end to Veerasagar Main road								
	Ch: (0 - 65)		2	65	0.10		16.25		
	Ch: (70 - 182)		2	112	0.10		28.00		
	1st Cross road from Veerasagar Main road to dead end								
	Ch: (0 - 100)		2	100	0.10		25.00		
	Ch: (106 - 175)		2	69	0.10		17.25		
							153.25	**542.72**	**83171.84**
	Sub Total-3								**83171.84**
	Total								3581417.44 **3582109.69**
13	Cost towards Preperation of DPR,PMC/QC @ 2%								71628.35 **71642.19**
14	**Cost of Plastic@ 8% of bitumen qty for BC**	**Kg**	1	833.31				**27.00**	**22499.37**
15	**Cost towards KIRDL Charges @ 9%**								322327.57 **322389.87**
16	Misellenous and other charges								2127.31 **1358.88**
	Grand Total								**4000000.00**

Joint Commissioner (Yelahanka Zone) BBMP, Bengaluru-92

Certificate:-

1. That the workspot has been inspected and provisions made in the estimate are adequate and necessary
2. Work spot comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That estimate is based on the PWD SR of 2016-17
4. The work is not split up
5. These works are not taken up in any grants and free from defect liability period
6. Earlier improvements taken up in the proposed roads are recorded in road history

Technical Sanction
Accorded For ...40.00 lakhs
Head of A/C.....P 3089
CER NO :.....196..... Dt: 24/03/17

Consultant:
For M/s Mecadez core technologies pvt ltd

[TA] [CE (YNK)]

Asst. Engineer
Ward No:3
BBMP

AEE
yelahanka Sub division
BBMP

Executive Engineer
yelahanka division
BBMP